



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

GAV 2184

Applicant: Ilan Sutskov et al.

Title: METHOD AND APPARATUS FOR DECODING LATTICE CODES AND MULTILEVEL COSET CODES

#13

12.05

Docket No.: 884.430US1  
Filed: October 29, 2001  
Examiner: Unknown  
Customer No.: 21186

Serial No.: 10/046590  
Due Date: December 17, 2003  
Group Art Unit: 2184  
Confirmation No.: 4168

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Technology Center 2100

Commissioner for Patents  
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We are transmitting herewith the following attached items (as indicated with an "X"):

- ☒ A return postcard.
- ☒ An Supplemental Information Disclosure Statement (2 pgs.), Form 1449 (1 pg.), and copies of 4 cited documents.
- ☒ Copy of International Search Report in PCT/IB02/04491 (4 pgs.).

If not provided for in a separate paper filed herewith, Please consider this a PETITION FOR EXTENSION OF TIME for sufficient number of months to enter these papers and please charge any additional fees or credit overpayment to Deposit Account No. 19-0743.

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.  
Customer Number 21186

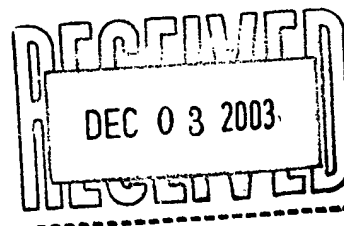
By: Ann M. McCrackin  
Atty: Ann M. McCrackin  
Reg. No. 42,858

CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to: Commissioner for Patents, P.O.Box 1450, Alexandria, VA 22313-1450, on this 26 day of November, 2003.

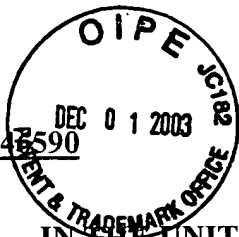
KACIA LEE  
Name

Kacia Lee  
Signature

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A. Customer Number 21186  
(GENERAL)



S/N 10/046590



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Ilan Sutskov et al.	Examiner:	Unknown
Serial No.:	10/046590	Group Art Unit:	2184
Filed:	October 29, 2001	Docket:	884.430US1
Title:	METHOD AND APPARATUS FOR DECODING LATTICE CODES AND MULTILEVEL COSET CODES		

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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

DEC 03 2003

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

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In compliance with the duty imposed by 37 C.F.R. § 1.56, and in accordance with 37 C.F.R. §§ 1.97 *et. seq.*, the enclosed materials are brought to the attention of the Examiner for consideration in connection with the above-identified patent application. Applicants respectfully request that this Supplemental Information Disclosure Statement be entered and the documents listed on the attached Form 1449 be considered by the Examiner and made of record. Pursuant to the provisions of MPEP 609, Applicants request that a copy of the 1449 form, initialed as being considered by the Examiner, be returned to the Applicants with the next official communication.

Pursuant to 37 C.F.R. §1.97(c)(1) and 37 C.F.R. §1.97(e)(1), Applicants state that each item of information contained in the Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the Information Disclosure Statement. A copy of the relevant International Search Report, in PCT/IB02/04491, mailed September 17, 2003, is enclosed.

Pursuant to 37 C.F.R. §1.97(b), it is believed that no fee or statement is required with the Supplemental Information Disclosure Statement. However, if an Office Action on the merits has been mailed, the Commissioner is hereby authorized to charge the required fees to Deposit Account No. 19-0743 in order to have this Supplemental Information Disclosure Statement considered.

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Serial No.: 10/046590

Filing Date: October 29, 2001

Title: METHOD AND APPARATUS FOR DECODING LATTICE CODES AND MULTILEVEL COSET CODES

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Dkt.: 884.460US1

The Examiner is invited to contact the Applicants' Representative at the below-listed telephone number if there are any questions regarding this communication.

Respectfully submitted,

ILAN SUTSKOVER ET AL.

By their Representatives,

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.  
P.O. Box 2938  
Minneapolis, Minnesota 55402  
612-349-9592

Date Nov. 26, 2003

By Ann M. McCrackin

Ann M. McCrackin

Reg. No. 42,858

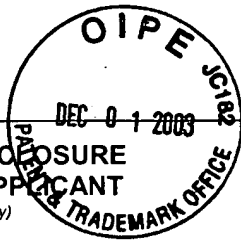
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Name

KACIA LEE

Signature

Kacia Lee



Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number	10/046590
Filing Date	October 29, 2001
First Named Inventor	Sutskover, Ilan
Group Art Unit	2184
Examiner Name	Unknown

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Sheet 1 of 1

Attorney Docket No: 884.430US1

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**US PATENT DOCUMENTS**

Examiner Initial *	USP Document Number	Publication Date	Name of Patentee or Applicant of cited Document	Class	Subclass	Filing Date If Appropriate
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**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Foreign Document No	Publication Date	Name of Patentee or Applicant of cited Document	Class	Subclass	T <sup>2</sup>
	EP-0237186	09/16/1987	Forney Jr., G. D.	H03M	13/00	

**OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		FAZEL, K., et al., "Combined Multilevel Turbo-Code with 8PSK Modulation", <u>IEEE Global Telecommunications Conference</u> , (Nov. 13, 1995), pp. 649-653	
		MARTIN, P. A., et al., "On Iterative Multistage Decoding", <u>2nd International Symposium on Turbo Codes &amp; Related Topics</u> , Brest, France, (Sep. 4, 2000), pp. 407-410	
		WACHSMANN, U., et al., "Multilevel Codes: Theoretical Concepts and Practical Design Rules", <u>IEEE Transactions on Information Theory</u> , 45, (Jul. 5, 1999), pp. 1361-1391	

**EXAMINER****DATE CONSIDERED**